

[illegible]


```
1 0001 0 MODULE showmain (IDENT='V04-000',
2 0002 0     MAIN=show$start,
3 0003 0     ADDRESSING MODE(EXTERNAL=GENERAL,
4 0004 0     NONEXTERNAL=LONG_RELATIVE)
5 0005 0 ) =
6 0006 1 BEGIN
7 0007 1
8 0008 1
9 0009 1 *****
10 0010 1 *
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30 0030 1 *****
31 0031 1
32 0032 1
33 0033 1 ++
34 0034 1
35 0035 1 FACILITY:  SHOW utility
36 0036 1
37 0037 1 ABSTRACT:
38 0038 1     This module contains the command processing and dispatch routines.
39 0039 1
40 0040 1 ENVIRONMENT:
41 0041 1     VAX native, user mode.
42 0042 1
43 0043 1 AUTHOR:  Gerry Smith          CREATION DATE:  25-Jun-1982
44 0044 1
45 0045 1 MODIFIED BY:
46 0046 1
47 0047 1     V03-005 AEW0002          Anne E. Warner          10-Jul-1984
48 0048 1     Remove the qualifier MSCP as this module is now called
49 0049 1     from SHOW$DEVICES as SHOW DEVICES/SERVED
50 0050 1
51 0051 1     V03-004 AEW0001          Anne E. Warner          12-Apr-1984
52 0052 1     Add the qualifier MSCP which enables the branch to
53 0053 1     the module SHOW$MSCP which shows information on mass
54 0054 1     served devices.
55 0055 1
56 0056 1     V03-003 MCN0147          Maria del C. Nasr          04-Feb-1984
57 0057 1     Take out reference to external routine FILE_ERROR, since
```

	it is not used.	
V03-002	GAS0174 Split the I/O routines into a different module, SHOWIO. Also added SHOW BROADCAST.	25-Aug-1983 Gerry Smith
V03-001	GAS0154 Add SHOW AUDIT.	7-Jul-1983 Gerry Smith


```
69 0068 1 LIBRARY 'SYSS$LIBRARY:STARLET';
70 0069 1 REQUIRE 'SRC$:SHOWDEF';
71 0168 1
72 0169 1
73 0170 1
74 0171 1
75 0172 1
76 0173 1
77 0174 1
78 0175 1
79 0176 1
80 0177 1
81 0178 1
82 0179 1
83 0180 1
84 0181 1
85 0182 1
86 0183 1
87 0184 1
88 0185 1
89 M 0186 1
90 M 0187 1
91 M 0188 1
92 M 0189 1
93 M 0190 1
94 M 0191 1
95 M 0192 1
96 M 0193 1
97 0194 1
98 0195 1

! VAX/VMS common definitions
! SHOW common definitions

Macro to set up two associated tables. The first table is a list of
descriptor addresses. These descriptors contain the option names.
The second table is a corresponding list of addresses of option routines.

If a new option is added to SET or SHOW, all that is required in this
module is to add one line of code, the option name, e.g. WORKING_SET.
Then, the name of the global routine that is dispatched to from this
routine will be named SHOW$WORKING_SET.

MACRO
    option_name [option] = %EXACTSTRING(4, 0, option)%,
    option_address [option] = %NAME(%STRING('show$', %STRING(option)))%,
    make_table (name) =
        [ LITERAL %NAME(%STRING(name, 'table length')) = %LENGTH - 1;
        EXTERNAL ROUTINE option_address(%REMAINING);
        OWN
            %NAME(%STRING(name, 'option')) : VECTOR[%LENGTH - 1]
            INITIAL (option_name(%REMAINING)),
            %NAME(%STRING(name, 'routine')) : VECTOR[%LENGTH - 1]
            INITIAL (option_address(%REMAINING));%;
```

```
: 100      0196 1 FORWARD ROUTINE
: 101      0197 1   show$start,
: 102      0198 1   handler;
: 103      0199 1
: 104      0200 1 EXTERNAL ROUTINE
: 105      0201 1   open_output : NOVALUE,
: 106      0202 1   show$write_line : NOVALUE,
: 107      0203 1   show$print_line : NOVALUE,
: 108      0204 1   cli$get_value,
: 109      0205 1   cli$present;
: 110      0206 1
: 111      0207 1 GLOBAL show$exit_status : $BBLOCK[4]
: 112      0208 1   INITIAL(1);
: 113      0209 1
: 114      0210 1
: 115      0211 1   Set up a table of all options, and another table pointing to the address
: 116      0212 1   of the routine for each option.
: 117      0213 1
: 118      0214 1
: 119      P 0215 1 make_table (show,
: 120      P 0216 1   accounting,
: 121      P 0217 1   audit,
: 122      P 0218 1   broadcast,
: 123      P 0219 1   devices,
: 124      P 0220 1   errors,
: 125      P 0221 1   logical,
: 126      P 0222 1   magtape,
: 127      P 0223 1   memory,
: 128      P 0224 1   network,
: 129      P 0225 1   printer,
: 130      P 0226 1   process,
: 131      P 0227 1   rms_default,
: 132      P 0228 1   system,
: 133      P 0229 1   terminal,
: 134      P 0230 1   users,
: 135      0231 1   working_set);
: 136      0232 1
: 137      0233 1
```



```
139 0234 1 ROUTINE show$start =
140 0235 2 BEGIN
141 0236 2
142 0237 2 ---
143 0238 2
144 0239 2 This is the main program. It gathers all the command inputs, and then
145 0240 2 dispatches to the appropriate routines.
146 0241 2
147 0242 2 ---
148 0243 2
149 0244 2 LOCAL
150 0245 2     status,
151 0246 2     option : $BLOCK[dsc$c_s_bln];
152 0247 2
153 0248 2 ENABLE handler;                                ! Enable the condition handler
154 0249 2
155 0250 2
156 0251 2 Open and connect to the output file.
157 0252 2
158 0253 2 open_output();
159 0254 2
160 0255 2
161 0256 2
162 0257 2 Interrogate the CLI to determine which option one was requested, and
163 0258 2 dispatch to the appropriate routine.
164 0259 2
165 0260 2 $init_dyndesc(option);
166 0261 2
167 0262 3 IF NOT (status = cli$get_value(%ASCII 'OPTION', option))
168 0263 2 THEN SIGNAL_STOP(.status);
169 0264 2
170 0265 2 option[dsc$w_length] = MINU (.option[dsc$w_length], 4);
171 0266 2
172 0267 2 INCR index FROM 0 TO show_table_length - 1 DO
173 0268 3 BEGIN
174 0269 3     IF CH$EQL(.option[dsc$w_length], .option[dsc$a_pointer],
175 0270 3         .option[dsc$w_length], show_option[.index])
176 0271 3     THEN
177 0272 4         BEGIN
178 0273 4             (.show_routine[.index])();
179 0274 4         EXITLOOP
180 0275 3         END;
181 0276 2     END;
182 0277 2
183 0278 2 RETURN .show$exit_status OR sts$m_inhib_msg;        ! Exit with no message
184 0279 1 END;
```

```
.TITLE SHOWMAIN
.IDENT \V04-000\

.PSECT $SPLIT$,NOWRT,NOEXE,2

00 00 4E 4F 49 54 50 4F 00000 P.AAB: .ASCII \OPTION\<0><0>
010E0006 00008 P.AAA: .LONG 17694726
00000000 0000C .ADDRESS P.AAB
```

```

.PSECT $OWNS,NOEXE,2

4F 43 43 41 00000 SHOW_OPTION:
49 44 55 41 00004 .ASCII \ACCO\
41 4F 52 42 00008 .ASCII \AUDI\
49 56 45 44 0000C .ASCII \BROA\
4F 52 52 45 00010 .ASCII \DEVI\
49 47 4F 4C 00014 .ASCII \ERRO\
54 47 41 4D 00018 .ASCII \LOGI\
4F 4D 45 4D 0001C .ASCII \MAGT\
57 54 45 4E 00020 .ASCII \MEMO\
4E 49 52 50 00024 .ASCII \NETW\
43 4F 52 50 00028 .ASCII \PRIN\
5F 53 4D 52 0002C .ASCII \PROC\
54 53 59 53 00030 .ASCII \RMS \
4D 52 45 54 00034 .ASCII \SYST\
52 45 53 55 00038 .ASCII \TERM\
4B 52 4F 57 0003C .ASCII \USER\
00000000G 00000000G 00000000G 00000000G 00000000G 00000000G 00040 SHOW_ROUTINE:
00000000G 00000000G 00000000G 00000000G 00000000G 00000000G 00058 .ADDRESS SHOW$ACCOUNTING, SHOW$AUDIT, -
00000000G 00000000G 00000000G 00000000G 00000000G 00000000G 00070 SHOW$BROADCAST, SHOW$DEVICES, -
SHOW$ERRORS, SHOW$LOGICAL, SHOW$MAGTAPE, -
SHOW$MEMORY, SHOW$NETWORK, SHOW$PRINTER, -
SHOW$PROCESS, SHOW$RMS DEFAULT, -
SHOW$SYSTEM, SHOW$TERMINAL, SHOW$USERS, -
SHOW$WORKING_SET

.PSECT $GLOBAL$,NOEXE,2

00000001 00000 SHOW$EXIT STATUS::
.LONG 1

.EXTRN OPEN_OUTPUT, SHOW$WRITE_LINE
.EXTRN SHOW$PRINT_LINE
.EXTRN CLISGET_VALUE, CLISPRESENT
.EXTRN SHOW$ACCOUNTING
.EXTRN SHOW$AUDIT, SHOW$BROADCAST
.EXTRN SHOW$DEVICES, SHOW$ERRORS
.EXTRN SHOW$LOGICAL, SHOW$MAGTAPE
.EXTRN SHOW$MEMORY, SHOW$NETWORK
.EXTRN SHOW$PRINTER, SHOW$PROCESS
.EXTRN SHOW$RMS DEFAULT
.EXTRN SHOW$SYSTEM, SHOW$TERMINAL
.EXTRN SHOW$USERS, SHOW$WORKING_SET

.PSECT $CODE$,NOWRT,2

001C 00000 SHOW$START:
5E 006A 08 C2 00002 .WORD Save R2,R3,R4
6D 00 00 CF DE 00005 .SUBL2 #8, SP
00 00 00 FB 0000A .MOVAL 6$, (FP)
6E 020E0000 8F D0 00011 .CALLS #0, OPEN_OUTPUT
04 AE D4 00018 .MOVL #34471938, OPTION
00000000' 5E DD 0001B .CLRL OPTION+4
EF 9F 0001D .PUSHL SP
PUSHAB P.AAA

```

0234
0235
0253
0260
0262

00000000G	00	02	FB	00023	CALLS	#2, CLISGET_VALUE	
	09	50	E8	0002A	BLBS	STATUS, 1\$	
		50	DD	0002D	PUSHL	STATUS	0263
00000000G	00	01	FB	0002F	CALLS	#1, LIB\$STOP	
	50	6E	3C	00036	MOVZWL	OPTION, R0	0265
	04	50	B1	00039	CMPW	R0, #4	
		03	1B	0003C	BLEQU	2\$	
	50	04	D0	0003E	MOVL	#4, R0	
	6E	50	B0	00041	MOVW	R0, OPTION	
		54	D4	00044	CLRL	INDEX	0269
		44	DF	00046	PUSHAL	SHOW OPTION[INDEX]	0270
9E	0A	BE	04	AE	29	0004D	
		0D	12	00053	CMPC3	OPTION, @OPTION+4, @ (SP)+	
		00	12	00053	BNEQ	4\$	
	50	00000000'EF	44	D0	00055	MOVL	SHOW ROUTINE[INDEX], R0
	60		00	FB	0005D	CALLS	#0, (R0)
			04	11	00060	BRB	5\$
E0		54	0F	F3	00062	AOBLEQ	#15, INDEX, 3\$
50	00000000'	EF	8F	C9	00066	BISL3	#268435456, SHOW\$EXIT_STATUS, R0
			04	00072	RET		0272
			0000	00073	.WORD	Save nothing	0267
			7E	D4	00075	CLRL	-(SP)
			5E	DD	00077	PUSHL	SP
			AC	7D	00079	MOVQ	4(AP), -(SP)
00000000V	7E	04	AC	7D	00079	MOVQ	4(AP), -(SP)
	EF		03	FB	0007D	CALLS	#3, HANDLER
			04	00084	RET		0279
							0235

; Routine Size: 133 bytes, Routine Base: \$CODE\$ + 0000


```
186 0280 1 ROUTINE handler (sigargs, mechargs) =
187 0281 BEGIN
188 0282
189 0283 ---
190 0284
191 0285 This routine is a condition handler established by the main
192 0286 routine. It saves the most severe condition for the exit status.
193 0287
194 0288 ---
195 0289
196 0290 MAP
197 0291 sigargs : REF $BBLOCK,
198 0292 mechargs : REF $BBLOCK;
199 0293 BIND
200 0294 signame = sigargs[chf$l_sig_name] : $BBLOCK; ! Name of signal
201 0295
202 0296
203 0297 IF .show$exit_status EQL 1 ! If no errors yet, use
204 0298 THEN show$exit_status = .signame; ! this one.
205 0299
206 0300 IF NOT .signame ! If an error signal
207 0301 AND .signame[sts$severity] ! and severity is worse
208 0302 GTRU . $BBLOCK[show$exit_status, sts$severity] ! than current saved severity
209 0303 THEN show$exit_status = .signame; ! then save it for exit
210 0304
211 0305 RETURN ss$_resignal; ! Resignal to get message
212 0306 1 END;
```

				0004	00000	HANDLER: .WORD	Save R2	0280	
		52	00000000'	EF	9E	00002	MOVAB	SHOW\$EXIT_STATUS, R2	0294
	50	04	AC	04	C1	00009	ADDL3	#4, SIGARGS, R0	0297
			01	62	D1	0000E	CMPL	SHOW\$EXIT_STATUS, #1	0298
			62	03	12	00011	BNEQ	1\$	0299
			0F	60	D0	00013	MOVL	(R0), SHOW\$EXIT_STATUS	0300
			03	60	E8	00016	BLBS	(R0), 2\$	0302
51	62		03	00	EF	00019	EXTZV	#0, #3, SHOW\$EXIT_STATUS, R1	0303
51	60		03	00	ED	0001E	CMPZV	#0, #3, (R0), R1	0305
			62	03	1B	00023	BLEQU	2\$	0306
			50	60	D0	00025	MOVL	(R0), SHOW\$EXIT_STATUS	
				8F	3C	00028	MOVZWL	#2328, R0	
				04	0002D		RET		

; Routine Size: 46 bytes, Routine Base: \$CODE\$ + 0085

: 214 0307 1 END
: 215 0308 0 ELUDOM

.EXTRN LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$GLOBALS	4	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$OWNS	128	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$SPLITS	16	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODES	179	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	23	0	581	00:01.0

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:SHOWMAIN/OBJ=OBJ\$:SHOWMAIN MSRC\$:SHOWMAIN/UPDATE=(ENHS:SHOWMAIN)

: Size: 179 code + 148 data bytes
: Run Time: 00:06.6
: Elapsed Time: 00:24.3
: Lines/CPU Min: 2808
: Lexemes/CPU-Min: 24866
: Memory Used: 69 pages
: Compilation Complete

0057

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